Troubleshooting of electropneumatic systems using PLC controls

PN121

This course allows you to extend your technical and methodological knowledge and to identify and eliminate faults without delay using a systematic procedure and the ability to understand the functional relationships of complex machinery.

Target groups

Maintenance, trainers

Contents

- Functional relationships between mechanical elements, pneumatics, electronics and PLC
- Design and function of pneumatic and electropneumatic components
- Basic principles of sensor technology
- Reviewing, completing and using machine documentation
- Developing and applying troubleshooting strategies in a team
- Optimising systems using fault documentation
- Learning and applying safety regulations and valid standards
- Process FMEA (Failure Mode and Effect Analysis) as a method of preventive maintenance
- Optimisation of a production-related system with TPM (Total Productive Maintenance) components
- Practical exercises on systematic troubleshooting

Outcomes

- The participants:
- can describe the functional relationship between mechanical, pneumatic, electronic and PLC components
- masters troubleshooting techniques and strategies
- is familiar with safety aspects of pneumatic systems
- can effectively use PLCs to identify and locate failures in an electro pneumatic system

Prerequisites

PN 111 Modern industrial pneumatics – Fundamentals training
Basic PLC training

Duration

3 days

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